

Name: _____

Date: _____

10.4 NOTES: Solving Special Systems of Linear Inequalities

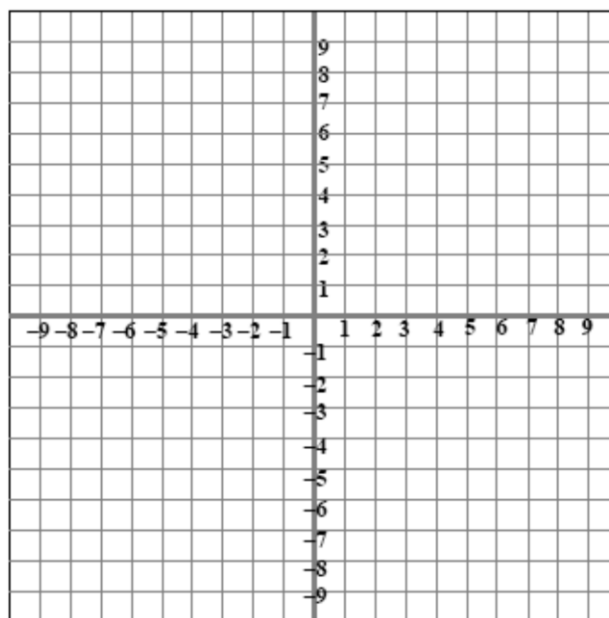
Algebra I

Remember, when graphing an inequality...

$y < mx + b$	dashed line, shade below the line
$y \leq mx + b$	solid line, shade below the line
$y > mx + b$	dashed line, shade above the line
$y \geq mx + b$	solid line, shade above the line

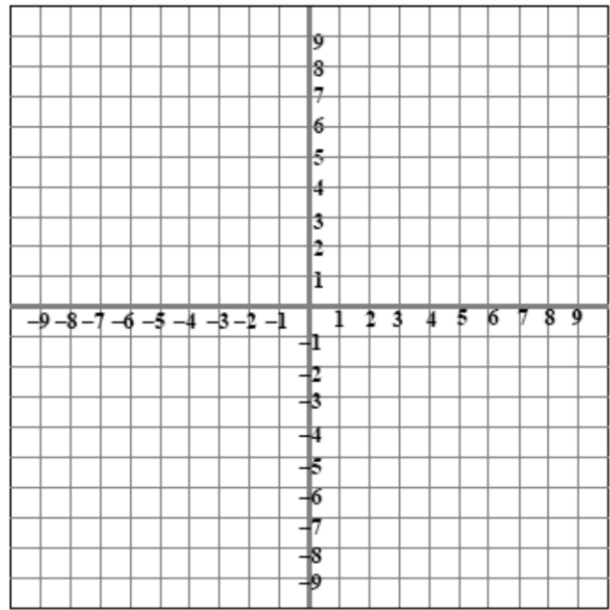
Graph the following systems of inequalities. Label your solution set S.

1.
$$\begin{cases} y \geq -3x + 2 \\ 3x + y \leq 9 \end{cases}$$



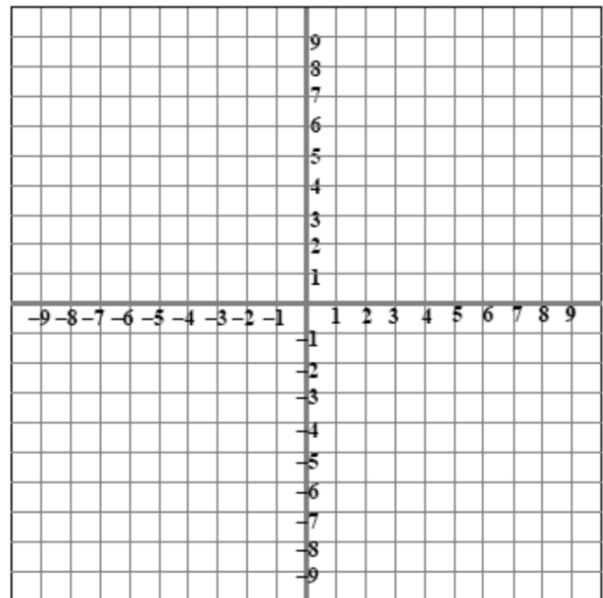
Name a point in the solution set and check. _____

$$2. \begin{cases} -2x + y \leq 1 \\ -2x + y \geq 4 \end{cases}$$



Name a point in the solution set and check. _____

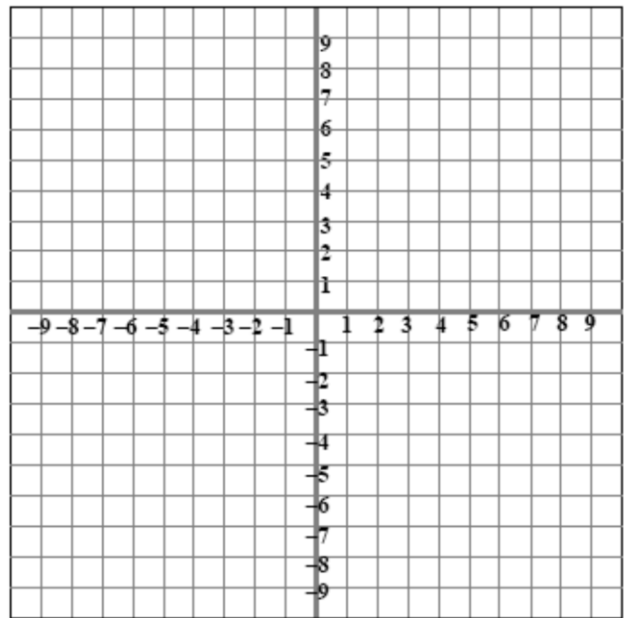
$$3. \begin{cases} y \leq x + 4 \\ x < -1 \\ y \geq 0 \end{cases}$$



Name a point in the solution set and check. _____

4. Graph the system.

$$\begin{cases} y > -\frac{1}{3}x - 4 \\ y = x + 1 \end{cases}$$



Name a point in the solution set and check. _____

Name a point in the solution set and check. _____

5. Write a system of inequalities that represents the shaded region on the following graph:

